

(19)



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) Publication number:

**0 576 898 A3**

(12)

**EUROPEAN PATENT APPLICATION**(21) Application number: **93109532.7**(51) Int. Cl.<sup>5</sup>: **C07K 7/06, C07K 7/08,  
A61K 37/02**(22) Date of filing: **15.06.93**(30) Priority: **18.06.92 US 900385**(43) Date of publication of application:  
**05.01.94 Bulletin 94/01**(84) Designated Contracting States:  
**AT BE CH DE DK ES FR GB GR IE IT LI LU NL  
PT SE**(66) Date of deferred publication of the search report:  
**13.04.94 Bulletin 94/15**(71) Applicant: **MERCK PATENT GmbH  
Postfach,  
Frankfurter Strasse 250  
D-64271 Darmstadt(DE)**

(72) Inventor: **Jonczyk, Alfred, Dr.  
Scheppallee 57  
D-64295 Darmstadt(DE)**  
Inventor: **Felding-Habermann, Brundhilde, Dr.  
10666 N. Torrey,  
Pines Road  
La Jolla, CA 92037(US)**  
Inventor: **Melzer, Guido, Dr.  
Mörkestrasse 6  
D-65719 Hofheim/Ts.(DE)**  
Inventor: **Diefenbach, Beate  
Beckstrasse 76  
D-64287 Darmstadt(DE)**  
Inventor: **Cheresh, David A., Dr.  
10446 Torrey,  
Pines Road  
La Jolla, Ca 92037(US)**

(54) **Linear peptides.**(57) The invention relates to novel linear peptides of  
Formulae Ia - In(Ia) **H-Leu-Leu-Val-Gly-Ala-Pro-Leu-Tyr-OH;**(Ib) **H-Asp-Leu-Leu-Val-Gly-Ala-Pro-Leu-Tyr-OH;**(Ic) **H-His-Asp-Leu-Leu-Val-Gly-Ala-Pro-Leu-Tyr-  
OH;**(Id) **H-Arg-His-Asp-Leu-Leu-Val-Gly-Ala-Pro-Leu-  
Tyr-OH;**(Ie) **H-Gly-Arg-His-Asp-Leu-Leu-Val-Gly-Ala-Pro-  
Leu-Tyr-OH;**(If) **H-Asp-Gly-Arg-His-Asp-Leu-Leu-Val-Gly-Ala-  
Pro-Leu-Tyr-OH;**(Ig) **H-Gly-Asp-Gly-Arg-His-Asp-Leu-Leu-Val-Gly-  
Ala-Pro-Leu-Tyr-OH;**(Ih) **H-Gly-Asp-Gly-Arg-His-Asp-Leu-OH;**(Ii) **H-Gly-Asp-Gly-Arg-His-Asp-Leu-Leu-OH;**(Ij) **H-Gly-Asp-Gly-Arg-His-Asp-Leu-Leu-Val-Gly-  
OH;**(Ik) **H-Gly-Asp-Gly-Arg-His-Asp-Leu-Leu-Val-Gly-  
Ala-OH;**(Il) **H-Gly-Asp-Gly-Arg-His-Asp-Leu-Leu-Val-Gly-  
Ala-Pro-Leu-OH;**(Im) **Ac-His-Asp-Leu-Leu-Val-Gly-Ala-Pro-Leu-OH;**(In) **Ac-Gly-Arg-His-Asp-Leu-Leu-Val-Gly-Ala-Pro-  
Leu-OH;**

wherein Ac stands for acetyl, and salts thereof.

These substances inhibit, inter alia, cell adhe-  
sion.**EP 0 576 898 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 93109532.7
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X, P	CHEMICAL ABSTRACTS, vol. 118, no. 19, May 10, 1993, Columbus, Ohio, USA S. ITO et al. "Peptidyl anti-thrombogenic agents for extracorporeal blood circulation" page 55, column 1, abstract-no. 183 068a & Int. J. Artif. Organs 1992, 15(12), 737-745 ---	1-4	C 07 K 7/06 C 07 K 7/08 A 61 K 37/02
X	CHEMICAL ABSTRACTS, vol. 114, no. 21, May 27, 1991, Columbus, Ohio, USA STANLEY E. D'SOUZA et al. "A discrete sequence in a platelet integrin is involved in ligand recognition" pages 549-550, column 2, abstract-no. 204 427b & Nature (London) 1991, 350(6313), 66-68 ---	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
X	WO - A - 91/07 977 (SCRIPPS CLINIC AND RESEARCH FOUND.) * Claim 1, page 74, line 6: sequence GDGRHDL identical to formula Ih; claim 2, page 74, lines 11,12: sequence GRGRHDL identical to formula Ih, sequence LLVGAPLY identical to formula Ia; claim 12, page 76, lines 4,5: sequence GRGRHDL identical to formula Ih, sequence LLVGAPLY identical to formula Ia * ----	1-4	C 07 K 7/00 A 61 K 37/00 A 61 K 39/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 05-10-1993	Examiner SCHARF
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			